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THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP 100 GALLERIA PARKWAY, NW STE 1750			SHERKAT, AREZOO	
			ART UNIT	PAPER NUMBER
ATLANTA,	GA 30339-5948		2131	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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<u> </u>	Application No.	Applicant(s)	_		
	09/941,229	MELAMPY ET AL.			
Office Action Summary	Examiner	Art Unit	_		
	Arezoo Sherkat	2131			
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a y within the statutory minimum of thi will apply and will expire SIX (6) MOIs, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 28 A	<u>ugust 2001</u> .				
2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the n					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.[D. 11, 453 O.G. 213.			
Disposition of Claims					
 4) Claim(s) 1-44 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-23 and 25-44 is/are rejected. 7) Claim(s) 24 is/are objected to. 8) Claim(s) are subject to restriction and/or 	wn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examine		•			
10)⊠ The drawing(s) filed on <u>28 August 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	-	· · · · · · · · · · · · · · · · · · ·			
	raininer. Note the attache	d Office Action of John 1 10-132.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau 	s have been received. s have been received in A rity documents have beer u (PCT Rule 17.2(a)).	Application No received in this National Stage			
* See the attached detailed Office action for a list	of the certified copies not	received.			
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/21/02 & 12/8/03.		nformal Patent Application (PTO-152)			

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DETAILED ACTION

Claims 1-44 are presented for examination.

Claim Objections

Claim 24 is objected to because of the following informalities: claim 24 is a duplicate of claim 23. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 7, 9-14, 17, 19-23, 25-26, 29, 31-37, 40, and 42-44 are rejected under 35 U.S.C. 102(b) as being anticipated by Hosford et al., (U.S. Patent No. 5,966,450 and Hosford hereinafter).

Regarding claims 1 and 12, Hosford discloses a method for providing encryption for the rerouting of multi-media data flow packets (i.e., it is interpreted that a receiving station may also work as a sending station using the variable mask method of encryption generated independently at communications stations), comprising the steps of:

assigning a sequence number to a first multi-media data flow packet received by a first endpoint, wherein said first multi-media data flow packet is within a series of multi-media data flow packets, pseudo-randomly shuffling said sequence number of said first multi-media data flow packet, and transmitting said pseudo-randomly shuffled sequence number to a second endpoint (Col. 1, lines 60-67 and Col. 2, lines 1-35).

Regarding claim 22, Hosford discloses a system for providing encryption for the rerouting of multi-media data flow packets (i.e., it is interpreted that a receiving station may also work as a sending station using the variable mask method of encryption generated independently at communications stations), comprising:

a first endpoint (i.e., transmitting station), connected to a second endpoint (i.e., receiving station), wherein said first endpoint comprises (Col. 4, lines 15-22):

a transceiver, software stored within said first endpoint defining functions to be performed by said first endpoint, and a processor configured by said software to perform the steps of, assigning a sequence number to a first multi-media data flow packet received by a first endpoint, wherein said first multi-media data flow packet is within a series of multi-media data flow packets, pseudo-randomly shuffling said sequence number of said first multi-media data flow packet, and transmitting said pseudo-randomly shuffled sequence number to a second endpoint (Col. 4, lines 12-67 and Col. 5, lines 1-67 and Col. 6, lines 1-37).

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Regarding claim 34, Hosford discloses a system for providing encryption for the routing of multi-media data flow packets, comprising:

a first endpoint (i.e., transmitting station) connected to a second endpoint (i.e., receiving station), wherein said second endpoint comprises (Col. 4, lines 15-22):

a transceiver, software stored within said second endpoint defining functions to be performed by said second endpoint, and a processor configured by said software to perform the steps of: unshuffling a pseudo-randomly shuffled sequence number received from said first endpoint, via use of an algorithmic key (i.e., Hosford calls this randomization key a SEED), and deriving a first data flow packet from said unshuffled sequence number, wherein said first data flow packet is within a series of data flow packets (i.e., Decryption is performed by combining the received speech frame and the variable voice privacy mask, again typically by XOR-ing the received frame and the variable voice privacy mask, to recover the original speech frame)(Col. 4, lines 12-67 and Col. 5, lines 1-67 and Col. 6, lines 1-37).

Regarding claim 35, Hosford discloses a system for providing encryption for the routing of data flow packets, comprising:

a first endpoint (i.e., transmitting station) connected to a second endpoint (i.e., receiving station), wherein said first endpoint comprises: a transceiver, and a controller programmed to perform the steps of (Col. 4, lines 12-22):

assigning a sequence number to a first multi-media data flow packet received by a first endpoint, wherein said first multi-media data flow packet is within a series of

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multi-media data flow packets, pseudo-randomly shuffling said sequence number of said first data flow packet (i.e., combining the variable mask with the frame of data using an exclusive OR operation), and transmitting said pseudo-randomly shuffled sequence number to a second endpoint (Col. 1, lines 60-67 and Col. 2, lines 1-35).

Regarding claims 2, 13, 23 and 36, Hosford discloses wherein said multi-media data flow packets are real-time multi-media data flow packets (i.e., a sequence of digitalized speech frames)(Col. 1, lines 14-24).

Regarding claims 3, 14, and 25, Hosford discloses wherein said pseudo-random shuffling is performed via use of randomization code (i.e., Hosford calls this randomization key a SEED) that is algorithmically predictable if a key to said randomization code is known (Col. 4, lines 12-67 and Col. 5, lines 1-67 and Col. 6, lines 1-37).

Regarding claims 4, 26, and 37, Hosford discloses wherein said series of multi-media data flow packets, including said first multi-media data flow packet, are assigned sequence numbers that are each pseudo-randomly shuffled prior to said transmitting step (i.e., combining the variable mask with the frame of data using an exclusive OR operation)(Col. 1, lines 60-67 and Col. 2, lines 1-35).

Regarding claims 7, 17, 29, and 40, Hosford discloses further comprising the step of re-sequencing said series of multi-media data flow packets so that said resequenced multi-media data flow packets are transmitted from said first endpoint to said second endpoint in a random order (i.e., it is interpreted that a receiving station may also work as a sending station using the variable mask method of encryption generated independently at communications stations)(Col. 4, lines 12-67 and Col. 5, lines 1-67 and Col. 6, lines 1-37).

Regarding claims 9, 19, 31, and 42, Hosford discloses further comprising the step of performing bit manipulation within said first multi-media data flow packet (i.e., combining the variable mask with the frame of data using an exclusive OR operation)(Col. 4, lines 12-67 and Col. 5, lines 1-16).

Regarding claims 10, 20, 32, and 43, Hosford discloses wherein said step of performing bit manipulation is performed by using a bit-size operation that is restorable (i.e., the most significant byte of SEED is concatenated with the existing bytes of RVPM to generate an intermediate RVPM. At the first iteration, the most significant byte of SEED is used as the intermediate RVPM. Although other portions of SEED could be used as the intermediate RVPM, the most significant byte varies in a more random manner than any other byte, so it is preferred)(Col. 4, lines 12-67 and Col. 5, lines 1-16).

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Regarding claims 11, 21, 33, and 44, Hosford discloses wherein said bit-size operation uses a negation operator, such that every 1 bit becomes a 0 bit and every 0 bit becomes a 1 bit (i.e., combining the variable mask with the frame of data using an exclusive OR operation)(Col. 1, lines 60-67 and Col. 2, lines 1-35).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8, 18, 30, 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hosford et al., (U.S. Patent No. 5,966,450 and Hosford hereinafter), in view of Pickett, (U.S. Publication No. 2002/0001302 and Pickett hereinafter).

Regarding claims 8, 18, 30, and 41, Hosford does not expressly disclose wherein said re-sequenced multi-media data flow packets are transmitted within a predetermined jitter buffer size.

However, Pickett discloses wherein said re-sequenced multi-media data flow packets are transmitted within a calculated jitter buffer size (Pages 39-40, Par. 0376-0380).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify the encryption method of Hosford by

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including wherein said re-sequenced multi-media data flow packets are transmitted within a calculated jitter buffer size as disclosed by Pickett. This modification would have been obvious because one of ordinary skill in the art would have been motivated by the suggestion of Pickett to provide for a method to minimize the size and delay of the jitter buffer while preventing buffer underflow caused by jitter (Pickett, Page 39, Par. 0376).

Allowable Subject Matter

Claims 5-6, 15-16, 27-28, and 38-39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Maxemchuck et al., (U.S. Patent No. 6,782,490),

Irvin et al., (U.S. Patent No. 5,862,160), and

Rosenberg et al., (U.S. Patent No. 6,141,788).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arezoo Sherkat whose telephone number is (571) 272-3796. The examiner can normally be reached on 8:00-4:30 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arezoo Sherkat Patent Examiner

Group 2131 Mar. 14, 2005 SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100